APC Smart-UPS 120 V

Performance line-interactive power protection for servers and network equipment

Over 20 million units sold — the UPS you can trust. Award-winning Smart-UPS™ from APC™ by Schneider Electric™ is the most popular UPS in the world for servers, storage, and networks. Trusted to protect critical data and equipment from power problems, the UPS supplies clean and reliable network-grade power. In addition to Legendary Reliability™ and manageability, Smart-UPS is available in a variety of form factors (tower, rack-mount, rack/tower convertible). There is a model for every application and budget.

Intelligent and manageable network power protection from entry level to scalable runtime. Ideal for servers, point-of-sale, routers, switches, hubs, and other network devices.

- Reliable
- Intelligent
- Manageable

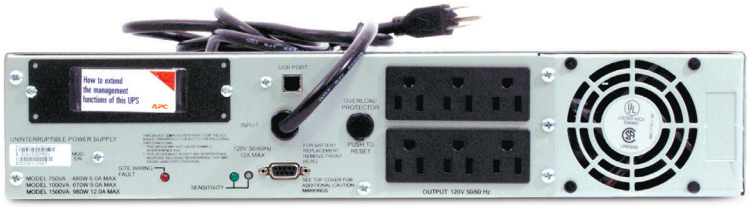
APC™
by Schneider Electric

Smart-UPS Tower and Rack-mount 750 – 3,000 VA

Application-optimized standard models ideal for servers, storage, point-of-sale, and other network devices

[SUA750]

[SUA1500RM2U]



[SUA1500RM2U]

[SUA750]

Standard Features

LED Display: Quickly understand unit and power status with visual indicators.

Network-grade power: Protects connected loads from surges, spikes, lightning, and other power disturbances.

Communication: USB, serial, and SmartSlot™ for accessory cards.

Emergency Power Off (EPO): Provides for remote UPS shut-off in the event of a fire or other emergency (2,200 VA and above).

Intelligent Battery Management: Temperature-compensated charging life prolongs battery life by regulating the charge voltage according to battery temperature.

User-replaceable, Hot-swappable Batteries: Ensures clean, uninterrupted power to protected equipment while batteries are being replaced.

Battery Disconnect: Convenient way to disconnect battery for transport.

Boost and Trim Automatic Voltage Regulation (AVR): Gives higher application availability by correcting low and high voltage conditions without using the battery.

Extended Run Models available up to 3,000 VA.

APC Smart-UPS manageability

Network manageable
Provides remote management of the UPS over the network.

Audible alarms
Provides notification of changing utility power and UPS conditions.

LED status indicators
Quickly understand unit and power status with visual indicators.

Serial connectivity
Provides management of the UPS via a serial port.

USB connectivity
Provides management of the UPS via a USB port (not available on all models).

Disconnected battery notification
Warns when a battery is not available to provide backup power.

Adjustable voltage-transfer points
Maximizes useful battery life by widening the input voltage window or tightening the output voltage regulation.

Adjustable voltage sensitivity
Provides the ability to adapt the UPS for optimal performance in specific power environments or generator applications.

1 Automatic Voltage Regulation Trim
Lights when UPS is correcting a high voltage condition.

2 On-line
Lights when UPS is supplying power to load.

3 Automatic Voltage Regulation Boost
Lights when UPS is correcting a low voltage condition.

4 Overload
Lights when UPS capacity is exceeded.

5 On Battery
Lights when UPS is supplying battery power to the load.

6 Replace Battery
Advanced warning notification using predictive failure technology.

7 On/Test Button
Also silences beeper.

8 Off Button

9 Load Bar Graph Display
Shows power being drawn from the load to stay under capacity.

10 Battery Charge Bar Graph Display
Display battery capacity charge percentage. This display also can show utility line voltage.

On all SUA models

PowerChute Business Edition

PowerChute™ Business Edition software provides UPS management, safe system shutdown, and innovative energy management capabilities. In the event of an extended power outage, graceful unattended shutdown ensures no information is lost and time to recovery is minimized. Energy cost and CO_2 reporting provides greater understanding of the energy consumed by IT equipment, enabling improved energy efficiency. Highly valued risk assessment reports detect potential threats to availability while advanced analysis features help to identify the causes of potential UPS- and power-related problems before they occur, ensuring the health of your system.

Safe Server Shutdown

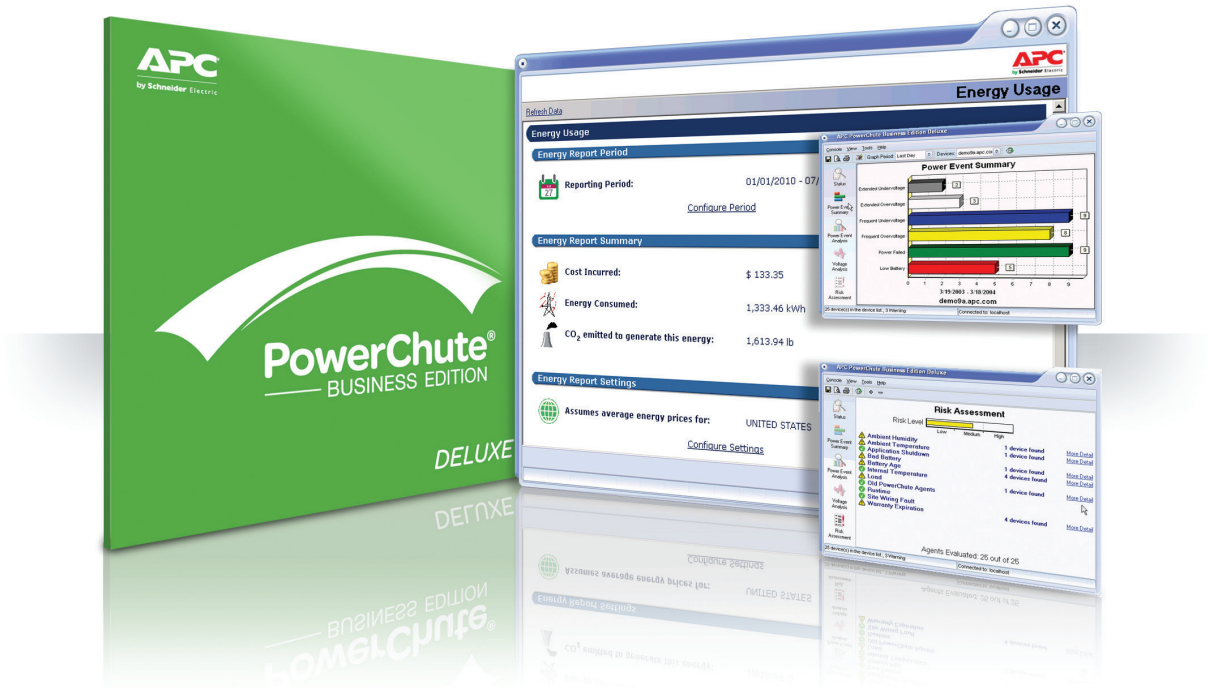
Graceful, unattended operating system shutdown prevents possible data corruption in the event of an extended power outage.

Fault Notification

Be notified of problems to ensure crucial situations are dealt with in a timely manner.

Monitor Multiple Smart-UPS

Monitor up to 25 APC Smart-UPS units using dedicated serial or USB connections.



Product Accessories

Management Cards

AP9630: UPS Network Management Card

AP9631: UPS Network Management Card with Environmental Monitoring

AP9625: APC Smart-UPS Two-post Rail Kit

Battery Packs

SUA24XLBP: APC Smart-UPS XL 24 V Battery Pack

SUA48XLBP: APC Smart-UPS XL 48 V Battery Pack, tower/rack convertible

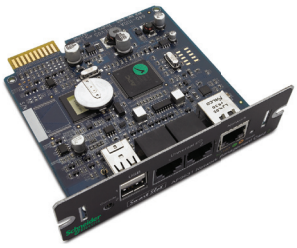
Service Bypass Panels

SBP1500RM: APC Service Bypass PDU, 120 V 15 A W/ (8) NEMA 5-15R

SBP3000RM: APC Service Bypass PDU, 120 V 30 A W/ (4) NEMA 5-20R and (1) L5-30R

SBP3000: APC Service Bypass Panel- 100 – 240 V; 30 A; BBM; Hard-wire Input/Output

SBP3000RMHW: APC Service Bypass Panel- 100 – 240 V; 30 A; BBM; Hard-wire Input/Output



AP9631

SBP3000RM

Runtime Estimates for standard models

UPS VA	750	750 RM 2U	1,000	1,000 RM 2U	1,500	1,500 RM 2U	2,200	2,200 RM 2U	3,000	3,000 RM 2U
50 W	1:43	2:04	3:03	3:26	5:01	5:21	8:51	5:19	8:51	5:47
100 W	:50	1:00	1:40	2:02	2:52	3:05	5:36	3:06	5:36	3:22
200 W	:22	:23	:45	1:00	1:24	1:31	3:05	1:38	3:05	1:46
300 W	:12	:11	:25	:35	:51	:55	2:02	1:04	2:02	1:10
400 W	:07	:07	:15	:23	:33	:37	1:28	:47	1:28	:52
500 W	:05		:10	:15	:23	:26	1:06	:37	1:06	:40
600 W			:07	:11	:17	:19	:52	:30	:52	:33
700 W					:12	:14	:42	:25	:42	:27
800 W					:10	:11	:34	:21	:34	:23
900 W					:08	:09	:28	:18	:28	:20
1,000 W							:24	:16	:24	:17
1,200 W							:17	:12	:17	:13
1,400 W							:13	:10	:13	:11
1,600 W							:10	:08	:10	:09
Full Load	:05	:06	:06	:09	:07	:07	:07	:05	:06	:03

Extended-run models that accept external battery packs are also available. Go to www.apc.com for estimated runtimes.

Standard tower models

APC Part Number	SUA750	SUA1000	SUA1500	SUA2200	SUA3000
Output					
Power capacity	500 W/750 VA	670 W/1,000 VA	980 W/1,440 VA	1,980 W/2,200 VA	2,700 W/3,000 VA
Nominal output voltage	120 V				
Output frequency	47 – 53 Hz for 50 Hz nominal, 57 – 63 Hz for 60 Hz nominal				
Wave form type	Sine wave				
Output connections (NEMA)	(6) 5-15R	(8) 5-15R	(8) 5-15R	(2) 5-20R, (8) 5-15R	(2) 5-20R, (8) 5-15R
Input					
Nominal input voltage	120 V				
Input voltage range for main operations (Max adjustable range)	82 – 144 V (75 - 154 V)				
Input frequency	50/60 Hz +/- 3 Hz (auto sensing)				
Input connection (NEMA)	5-15P	5-15P	5-15P	5-20P	L5-30P
Batteries and runtime					
Battery type	Maintenance-free sealed lead-acid battery with suspended electrolyte; leak-proof				
Replacement battery	RBC48	RBC6	RBC7	RBC55	RBC55
Communication and management					
Interface ports	DB-9 RS-232, Smart-Slot, USB				
Display and audible alarms	LED status display with load and battery bar graphs and on-line, on-battery, replace battery, and overload Indicators; alarm when on battery; distinctive low battery alarm; configurable delays				
Emergency power off (EPO)	Optional			Yes	Yes
Surge protection and filtering					
Surge energy rating	540 J	459 J	459 J	459 J	459 J
Physical					
Maximum height (inches)	6.20	8.50	8.50	17.0	17.0
Maximum width (inches)	5.40	6.70	6.70	7.7	7.7
Maximum depth (inches)	14.10	17.3	17.3	21.5	21.5
Net weight (lb.)	29	42	53	112	116
Conformance					
Regulatory	FCC Part 15 Class A,UL 1778				
Warranty and equipment protection policy	Two years repair or replace				

Rack mount models

APC Part Number	SUA750RM1U	SUA750RM2U	SUA1000RM1U	SUA1000RM2U	SUA1500RM2U	SUA2200RM2U	SUA3000RM2U
Output							
Nominal Output Voltage	120 V						
Output Frequency (sync to mains)	47 – 53 Hz for 50 Hz nominal, 57 – 63 Hz for 60 Hz nominal						
Output Voltage Distortion	Less than 5% at full load						
Power Capacity	480 W 750 VA	480 W 750 VA	640 W 1,000 VA	670 W 1,000 VA	980 W 1,440 VA	1,980 W 2,200 VA	2,700 W 3,000 VA
Waveform Type	Sine wave						
Output Connections (NEMA)	(4) 5-15R	(6) 5-15R	(4) 5-15R	(6) 5-15R	(6) 5-15R	(2) 5-20R, (6) 5-15R	
Input							
Nominal input voltage	120 V						
Input voltage adjustable range for mains operation	75 – 154 V						
Input voltage range for main operations	82 – 144 V						
Input frequency	50/60 Hz +/-3 Hz (auto sensing)						
Input connection (NEMA)	5-15P					5-20P	L5-30P
Batteries and runtime							
Replacement battery cartridge	RBC34	RBC22	RBC34	8RBC23	RBC24	RBC43	RBC43
Battery Type	Maintenance-free sealed lead-acid battery with suspended electrolyte; leak-proof						
Communications and Management							
Display and audible alarms	LED status display with load and battery bar graphs and on-line, on-battery, replace battery, and overload Indicators; alarm when on battery; distinctive low battery alarm; configurable delays						
Interface Port(s)	DB-9 RS-232, SmartSlot, USB						
Available SmartSlot™ Interface Quantity	1						
Emergency Power Off (EPO)	Optional					Yes	Yes
Surge Protection and Filtering							
Surge energy rating	480 J	459 J	480 J	459 J	459 J	480 J	480 J
Filtering	Full time multi-pole noise filtering : 0.3% IEEE surge let-through; zero clamping response time; meets UL 1449						
Physical							
Color	Black						
Cord Length (feet)	8						
Maximum height (inches)	1.72	3.5	1.72	17.50	3.5		
Maximum width (inches)	19						
Maximum depth (inches)	26	18	26	18	18	26	27
Net weight (lb.)	48			62	63	96	
Units per Pallet	10	16	10	16		8	
Rack Height	1U	2U	1U	2U			
Shipping Height (inches)	7.5	9.88	7.5	9.88	9.88	10	10
Shipping Width (inches)	22	23.38	22	23.38	23.38	24.5	24.5
Shipping Depth (inches)	30.5	23.75	30.5	23.75	23.75	38.6	38.6
Shipping Weight (lb.)	56	55.25	56	69.2	70.2	125	125
Conformance							
Regulatory	FCC Part 15 Class A,UL 1778						
Warranty and equipment protection policy	Two years repair or replace						

Extended run models

APC Part Number	SUA1000XL	SUA2200XL	SUA3000XL
Output			
Power capacity	800 W, 1,000 VA	1,850 W, 2,200 VA	2,700 W, 3,000 VA
Nominal output voltage	120 V		
Output frequency	47 – 53 Hz for 50 Hz nominal, 57 – 63 Hz for 60 Hz nominal		
Wave form type	Sine wave		
Output connections (NEMA)	(8) 5-15R	(9) 5-15R (2) 5-20R	(9) 5-15R (2) 5-20R
Input			
Nominal input voltage	120 V		
Input voltage range for main operations (Max adjustable range)	82 – 144 V (75 – 154 V)		
Input frequency	50/60 Hz +/-3 Hz (auto sensing)		
Input connection	5-15P	5-20P	L5-30P
Batteries and runtime			
Battery type	Maintenance-free sealed lead-acid battery with suspended electrolyte; leak-proof		
Replacement battery cartridge	RBC7	RBC55	RBC55
Communication and management			
Interface ports	DB-9 RS-232, SmartSlot, USB		
Control panel and alarms	LED status display with load and battery bar graphs and on-line, on-battery, replace battery, and overload Indicators; Alarm when on battery; distinctive low battery alarm; configurable delays		
Available SmartSlot™ Interface Quantity	1		
Emergency power off (EPO)	Optional	Yes	Yes
Surge protection			
Filtering	Full time multipole noise filtering: 0.3% IEEE surge let-through, zero clamping response time, meets UL 1449		
Physical			
Color	Black		
Maximum height (inches)	8.50	17.50	17.50
Maximum width (inches)	6.70	8.70	8.70
Maximum depth (inches)	17.3	19.50	19.50
Net weight (lb.)	60.00	137.00	140.00
Rack Height	5U		5U
Conformance			
Regulatory	CSA, FCC Part 15 Class A, UL 1449, UL 1778		
Standard warranty	Two years repair or replace		

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